

NEO x4A6

Smart Gas Metering

NB-IoT Data Logger



Worldwide coverage of NB-IoT bands



Bluetooth 5.4



Built-in pulse sensor



Accelerometer technology for proper installation



Long life battery



ATEX / IECEx / UK Ex certified



Robust design for outdoor operation



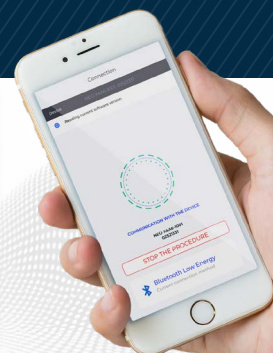
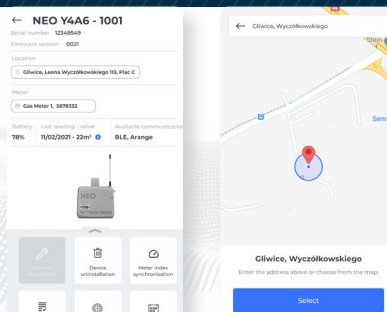
Optional replicated pulse output

The **NEO x4A6** is a highly reliable, battery-powered data logger designed for diaphragm gas meters, enabling utility companies to streamline operations through accurate, remote meter readouts. It monitors key site parameters—including meter readings, gas consumption, and alarms—and securely transmits data at regular intervals via the NB-IoT network, eliminating the need for manual readings and reducing human error. Certified for use in hazardous environments (ATEX-compliant), the device also features Bluetooth 5.4 for easy on-site configuration, diagnostics, and data access using the SITA mobile app.

As part of AIUT's open IoT Ecosystem, the NEO x4A6 ensures efficient system performance, simplified device management, and scalable, cost-effective connectivity—empowering utility companies to enhance data accuracy, reduce operational costs, and modernize metering infrastructure.

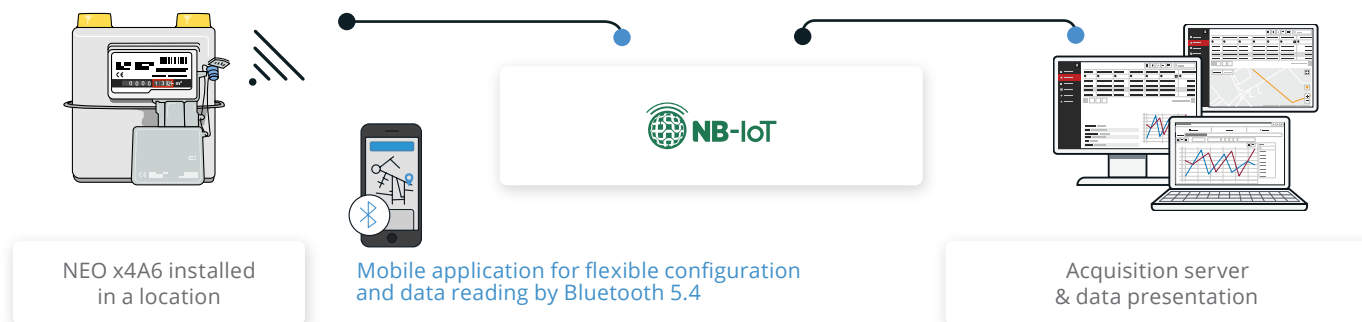
SITA application - virtual LCD display

- ✓ No complex button sequences on device
- ✓ Quick readings, setup, and diagnostics
- ✓ Bluetooth (BLE) on-site access
- ✓ Remote system supervision
- ✓ Access to current and historical consumption data

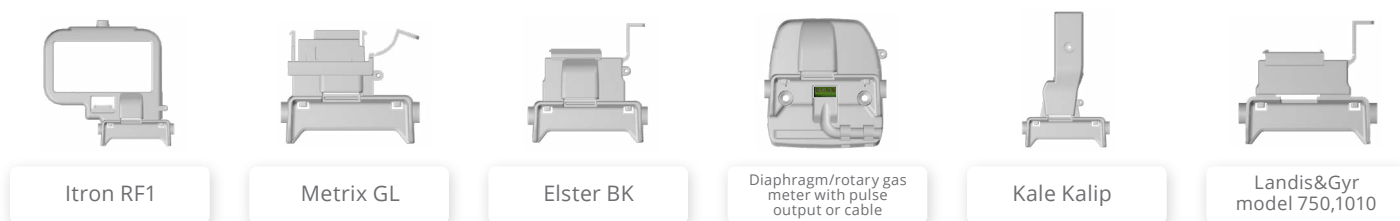


PLUG & PLAY

NEO x4A6 installed on gas meter takes pulses from the meter (appropriate adapter on request - see below) and can send the data over NB-IoT network to an acquisition server. Subsequently, the data can be processed further to 3rd party data center.



Thanks to the specially dedicated adapters, NEO x4A6 can be used with different types of gas meters:



Functional and Technical Specifications

Communication

- NB-IoT
 - Quectel BC660K-GL
 - embedded SIM card (MFF2) or micro SIM (3FF)
 - optional external SMA antenna
- Bluetooth® Low Energy
 - Bluetooth 5.4
 - 2,4 GHz, +6 dBm
 - range up to 30 m
- Support of IMR, LwM2M, or DLMS protocols (depending on configuration)

Environmental parameters

- Operating temperature: -25°C to +55°C
- UV resistant
- Ingress protection classification: IP67

Power supply

- Non-replaceable long life Li-MnO₂ battery
- Battery lifetime: up to 10 years

*The battery life depends on the device's target configuration, environmental conditions, and user interaction with the device.

Dimensions

- NEO X4A6
H (w/o antenna) x W x D: 90 mm x 91 mm x 35 mm
- NEO Y4A6
H (w/o antenna) x W x D: 102 mm x 91 mm x 36 mm

Data structures

- Gas consumption logging at configurable intervals (60 minutes by default)
- Current state: temperature, signal quality, battery state
- Daily maximum instantaneous and hourly flow
- Tamper detection: device removal, external magnet
- Device status: active BLE connection, allowed temperature exceeded, device warning, device error (service required)

Compliance

- ATEX / UK Ex / IECEx: II1G Ex ia IIC T3 Ga
or II 3G Ex ic IIB T3 Gc
- CE / UKCA

HMI interface

- Magnetic "button"
- Mobile application for control/reading by Bluetooth Low Energy (BLE)

Available versions

- NEO X4A6-1001 - adapter connector, whip antenna, embedded SIM, dedicated for ATEX Zone 0
- NEO X4A6-1101 - adapter connector, SMA antenna, embedded SIM, dedicated for ATEX Zone 0
- NEO X4A6-3101 - adapter connector, SMA antenna, micro SIM, dedicated for ATEX Zone 2
- NEO Y4A6-1001 - built-in sensor, whip antenna, embedded SIM, dedicated for ATEX Zone 0

AIUNEO_NEO x4A6_EN_20250516

aiut



AIUNEO

AIUT sp. z o.o. ul. Wyczółkowskiego 113, 44-109 Gliwice, Poland
Tel.: (+48 32) 77 54 000 Fax: (+48 32) 77 54 001
www.aiuneo.com | www.aiut.com